multi frame™

English user manual

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04.2012

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U.S. Patent Des. D588,051 S
Norwegian Design Reg. No. 80196
Pat. Pend.

GB MULTI FRAME

Congratulations on choosing the Multi Frame as your new wheelchair base. It is a high quality R82 product and we are convinced that it will fully live up to your expectations.

Multi Frame is a smart and simple wheelchair frame designed for children and teenagers.

This user manual is a guide to assist in gaining the full benefits of the options offered for the Multi Frame. Therefore, we recommend that you read this manual before using the frame.

GB SAFETY

The Multi Frame has earned the CE-mark. This certifies that it meets all relevant European safety requirements. Furthermore the Multi Frame is approved according to ISO 7176-19, EN 12182 and EN 12183. This manual is approved according to ISO 7176-15 and 16840-4.

The durability of this product is 5 years when it is used on a daily basis.
Hereafter the product must be renovated (by R82 personnel) to extend the lifetime.

Remove the CE-mark, when rebuilding the product or when using other than original R82 spare parts and fittings.

Never leave your child unattended in this product. Ensure constant supervision by an adult. Incorrect use of the product may cause serious injury to the user. Ensure that the belt is securely fixed to the product before every use..

Always use the product in a moderate pace. Do not run with the product.

The Multi Frame is constructed for one user only. Do not place more than one user in the Multi Frame.

The latest version of the manual is always available online: www.R82.com.

GB WARRANTY

R82 offers a 2-year warranty against defects in workmanship and materials and a 5-year warranty on breakage of the metal frame caused by defects in welds. The warranty would be adversely affected if the customer's responsibility of servicing and/or daily maintenance is not carried out according to the guidelines and intervals prescribed by the supplier and/or stated in the manual. For further information, we refer to the R82 homepage/download. The warranty can only be sustained if the R82 product is in use in the same country where it was purchased and if the product can be identified by the serial number. The warranty does not cover accidental damage, including damage caused by misuse or neglect. The warranty does not extend to non-durable parts, which are subject to normal wear and tear and need periodic replacement. The warranty is null and void if non-original R82 parts/accessories are used, or if the product is repaired or altered by anyone other than an authorised R82 representative or by trained personnel officially recognised by R82 for repair and maintenance of R82 products. R82 reserves the right to inspect the product being claimed for and the relevant documentation before agreeing to the warranty claim, and to decide upon whether to replace or repair the defective product. It is the customer's responsibility to return the item being claimed for under warranty to the address of purchase. The warranty is given by R82 or, subsequently, an R82 dealer.

GB TOOLS

There is a tool bag under the chair with 4, 5 and 6 mm Allen keys. Also included is a spanner sz. 10 and 13 mm. Use these tools for the adjustments described in the manual.

GB READY FOR USE

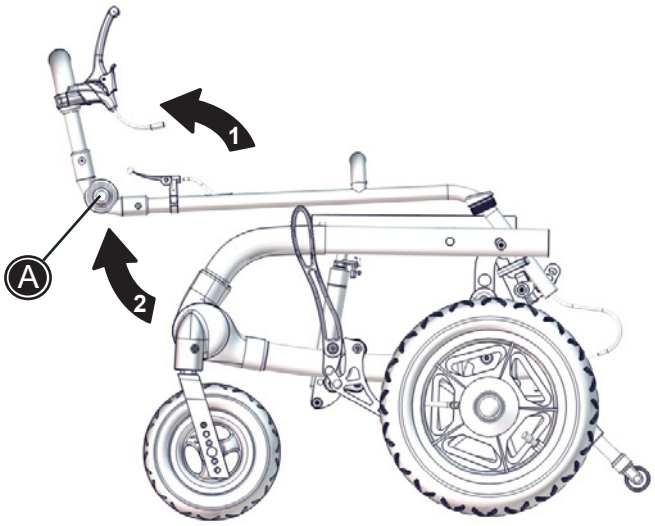
Multi Frame is folded when delivered but is unfolded very easily:

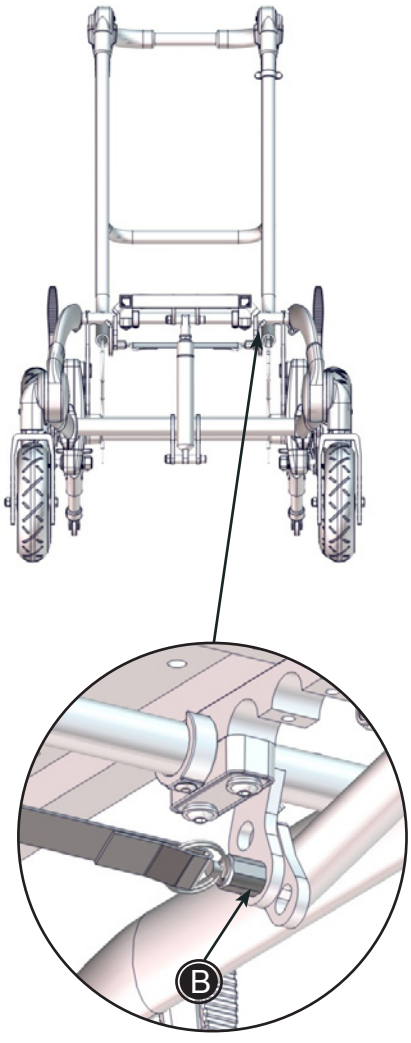
1) Push in the buttons (A) in both sides of the handle and fold out the push brace

2) The frame is folded out by lifting the push brace. Fold out until the lock fitting "clicks" into place on either side of of the frame (B)

3) The push brace is adjusted by pushing in the buttons (A) in both sides of the handle and lifting the handle into the required position.

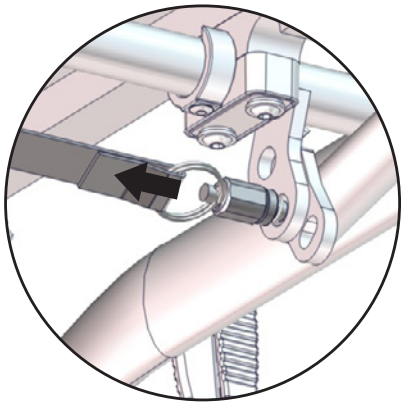
Your Multi Frame is now ready for use.

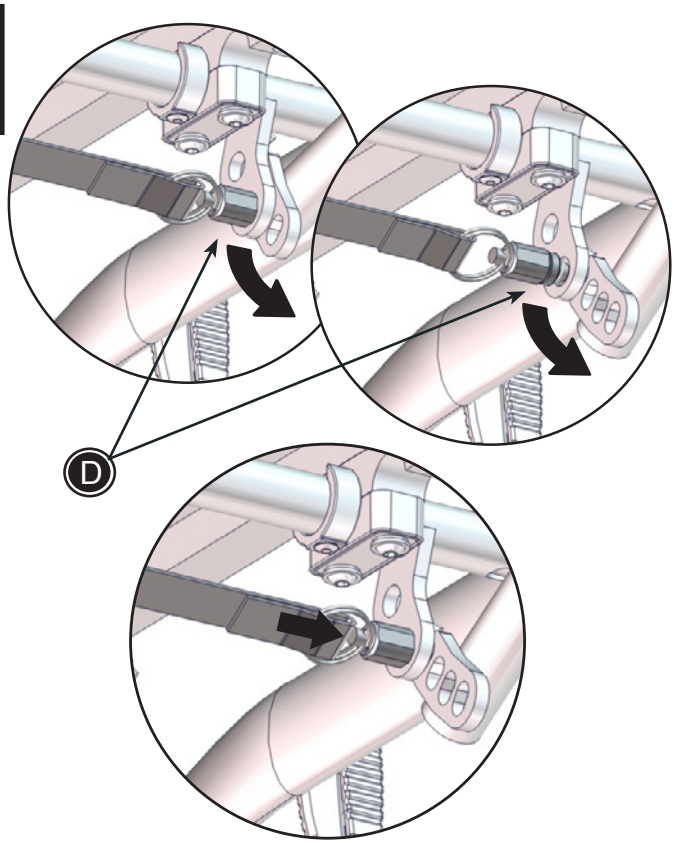




⚠ Check that the locking pins (B) are completely locked in both sides before using the wheel chair.

⚠ Please be careful not to get your fingers caught when folding out the frame.





GB ADJUSTING THE PUSH BRACE

The push brace can be adjusted into four positions to make a bigger distance between the push brace and seat.

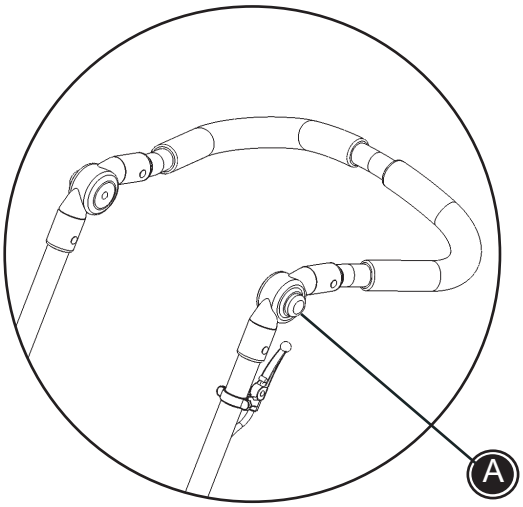
1) The push brace is angled by twisting the strap (A) under the basic frame whilst pushing the push brace forward or backward.

2) When the pushbrace has been moved to a new position, let go of the strap and the locking pins (D) click into the fitting.

⚠ Be aware that the locking pins (D) are completely locked in both sides before using the wheel chair.

⚠ Do not ever use the push brace to lift/pull the frame up or down stairs, landings, curbs ect. The frame can only be lifted by two persons taking hold of the frame evenly on either side. Never use the push brace to lift the frame.

GB ANGLE THE PUSH HANDLE



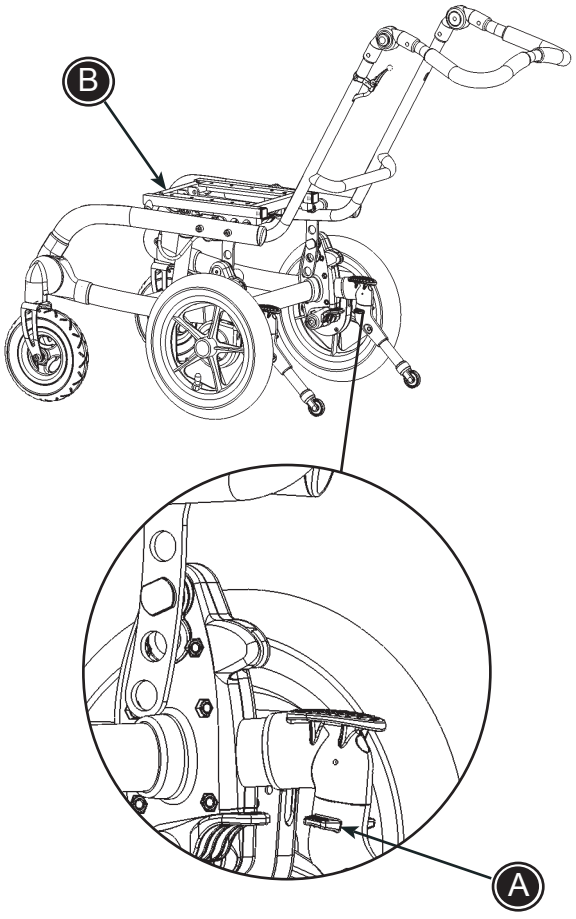
The push handle on the Multi Frame can easily be adjusted for angle/height.

1) Push the buttons (A) in both sides and hold them in
2) Move the push handle up or down to obtain the desired position.
3) Release the the buttons (A) and the push handle will stay in the desired position.

⚠ Do not ever use the push handle to lift/pull the chair up or down stairs, landings,steps etc. The chair can only be lifted by two persons lifting the frame evenly. Never use the push brace to lift the chair.

⚠ Please be careful not to get fingers caught when adjusting the push handle.

GB ANTI-TIP DEVICE

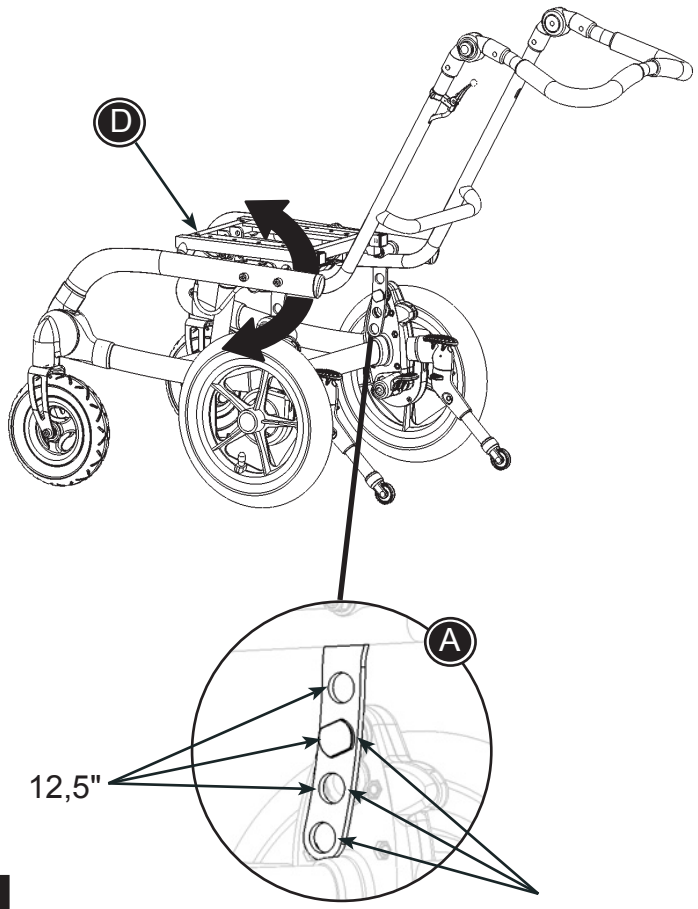


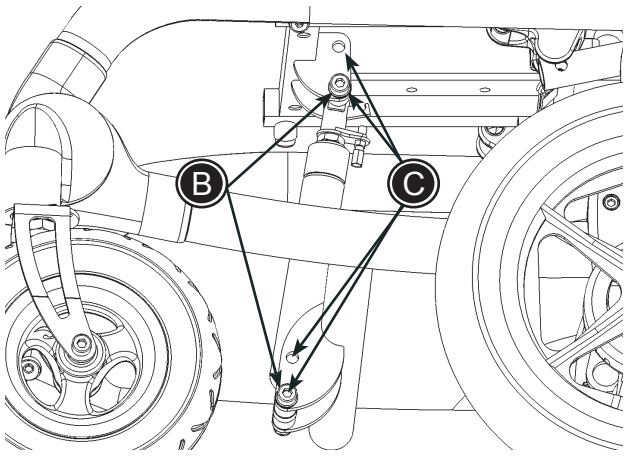
Anti-tips are standard equipment on the Multi Frame. The anti-tip devices are mounted on the back of the chair beneath the seat.

Activate the anti-tip device with the foot on the projection (A). To deactivate, push projection again and turn the anti-tip device around 180°.

⚠ The anti-tip device must be activated when the angle of the basic frame (B) is greater than 20° or when using tilt.

⚠ We recommend periodically checking the anti-tip devices to make sure they are in proper working condition.





GB SEAT HEIGHT ADJUSTMENT

When adjusting the seat height the frame has to be adjusted up or down by the fitting (A) and the gas spring.

Using 12,5" back wheels, you can adjust the height in the 3 upper holes in the fitting (A). Please see (A).

Using 22" back wheels, you can adjust the height in the 3 lower holes in the fitting (A). Please see (A).

Do as following:

1. Undo the bolt in the fitting (A) in both sides of the frame.
2. Adjust the frame up or down to the desired position, by carefully moving the upper part of the frame up or down
3. Remount the bolts again.
4. Then you have to adjust the gas spring so the basic frame (D) is horizontal when the gas spring is pushed all the way down. Undo the bolts (B) with a 6 mm allen key and a 13 mm spanner. Choose between the 4 holes (C) to place the seat frame in horizontal position and mount the bolts again.

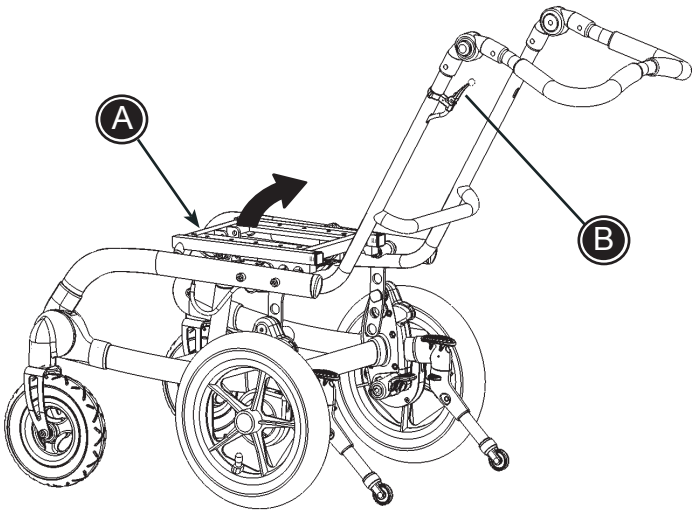
⚠ Always mount the gas spring so the basic frame (D) is horizontal when the gas spring is pushed all the way down.

⚠ The height of the frame must be the same on both sides of the chair.

⚠ Be aware that the centre of gravity changes when the seat height is adjusted.

⚠ The user must not be in the chair while the seat angle adjustment is made.

GB ANGLING / TILTING THE BASIC FRAME



The basic frame (A) can be adjusted for angle.

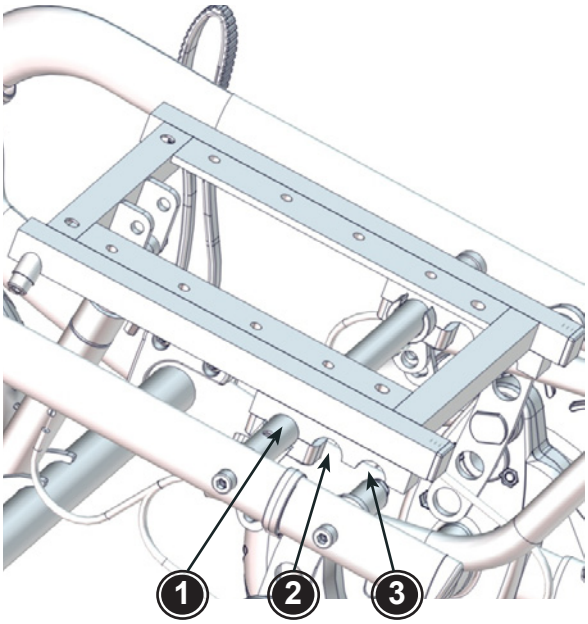
The basic frame can be tilted backwards by operating the lever (B) and using the push brace to position the tilt in the required position, once the required position is reached the Lever (B) can be released.

To tilt the frame forward back to the horizontal position, depress the lever(B) whilst holding onto the push brace and allow to return to the horizontal position, the frame may be stopped in any position in between the min. and max. position by releasing the lever (B)

⚠ When angling the basic frame the centre of gravity changes! When positioning the seat for the first time, it can be necessary to adjust the seat forward or backward to maintain stability and prevent the frame from tipping.

⚠ When angling the basic frame, please be aware that the push brace also might to be angled.

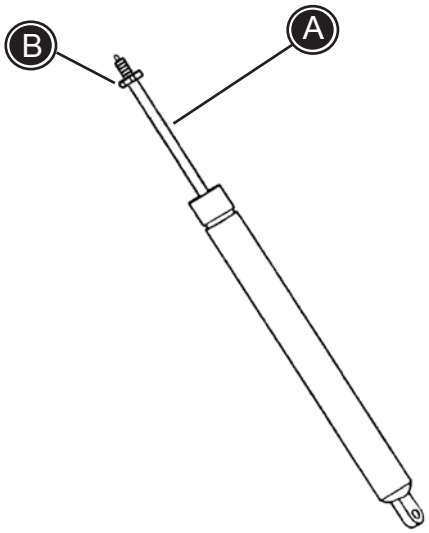
⚠ Activate the anti-tip devices when the seat is in tilted position.



The angle of the basic frame depends on the placement of the basic frame on the Multi Frame.

The basic frame can be mounted in 3 different positions to adjust the centre of gravity for a seat.

Angle for position 1: 0° to approx 40°
Angle for position 2: 0° to approx 35°
Angle for position 3: 0° to approx 30°



GB GAS SPRING ADJUSTMENT

Occasionally the gas spring may need to be adjusted. The adjustment is only necessary when:

- the gas spring releases itself slowly
- the gas spring can not be released at all

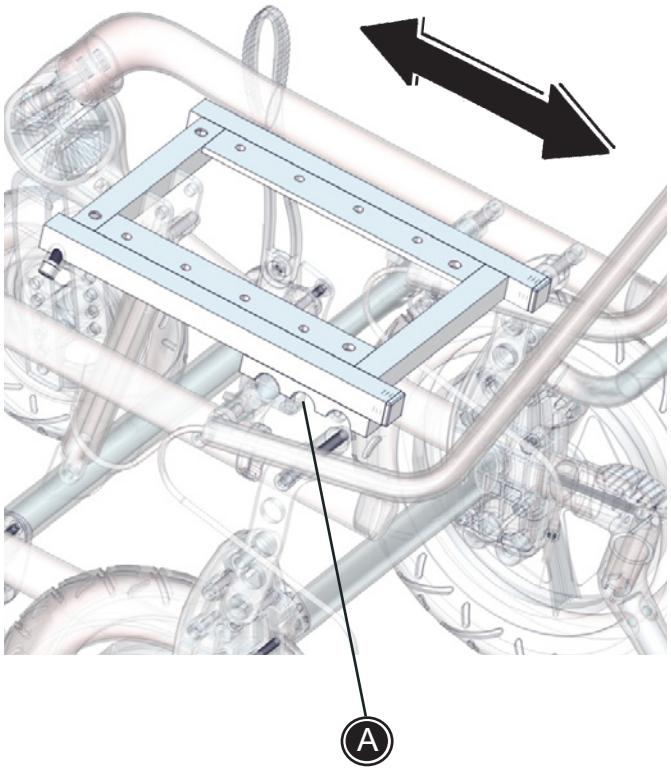
If the gas spring releases itself; loosen the nut (B) with a 17 mm wrench. Next turn the piston rod (A) counter clockwise to tighten. Then fasten the nut (B) again.

If the gas spring can not be released at all; loosen the nut (B) with a 17 mm wrench. Then turn the piston rod (A) clockwise to loosen. Fasten the nut (B) again.

⚠ Do not expose the gas spring to pressure or high temperatures. DO NOT puncture.

⚠ Do not expose the piston rod to scratches ect. It is important to use a cloth or the like, if tools are used to adjust the gas spring.

GB CENTRE OF GRAVITY



The center of gravity for the Multi Frame can be adjusted by moving the placement of the basic frame and by changing the position of an interface.

The basic frame can be placed in 3 positions:

Changing the placement of the basic frame:

1) Dismount the fitting (A) below the basic frame by removing (from below) the 2 bolts with a 4 mm allen key. Remove the fitting on both sides.

2) Lift the basic frame and move it forward or backward to the desired position.

3) Mount the bolts again.

Changing the placement of a interface:

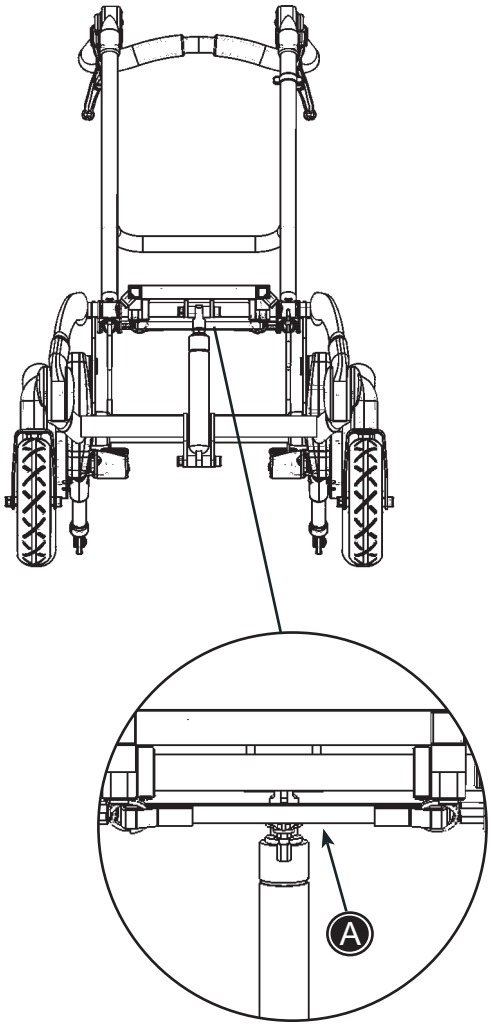
Please see section "Interface for x:panda and Panda Futura seats".

It is very important to adjust the centre of gravity, to maintain stability and prevent the frame from tipping.

We recommend that the seat placement adjustment is made by a skilled technician.

It is important to tighten all screws securely and inspect them regularly, especially after adjustment of the centre of gravity.

If the center of gravity is adjusted towards the rear of the chair, the chair may become tippy. We recommend activating the anti-tips.



GB FOLDING THE MULTI FRAME

The push brace on Multi Frame can be folded down and make the frame smaller.

Folding down:

1) If mounted, dismount the seat

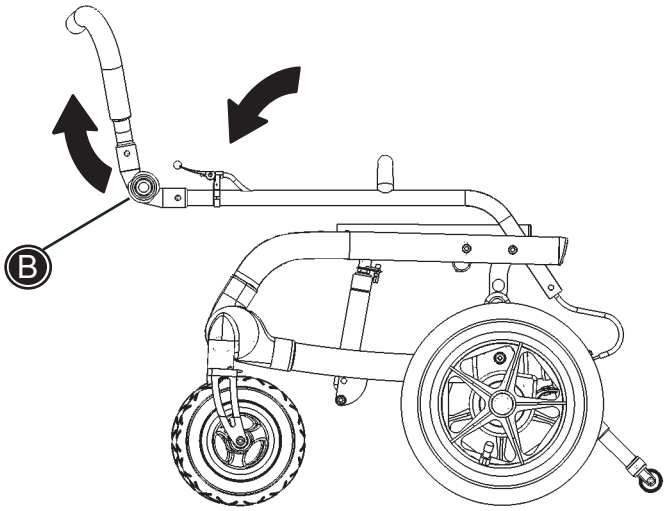
2) Push the buttons (B) on the hand brace and fold the band brace.

3) Pull or twist lightly on the strap (A) from behind under the basic frame. The push brace will loosen and can be folded forward over the frame.

Unfolding:

Please see the section "Ready for use"

When folding the Multi Frame, please be carefull not to get fingers caught!



GB WHEEL LOCK 12½" AND 22" WHEEL

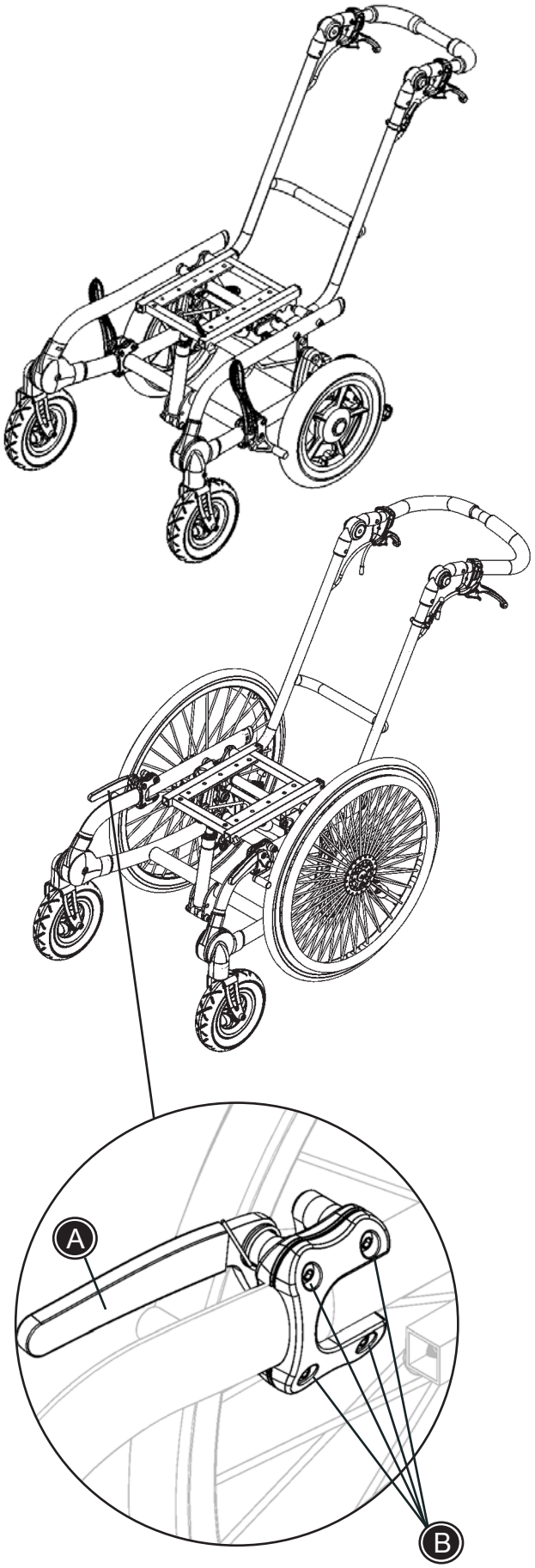
Wheel locks are mounted on the frame and can be operated by either user or helper.

Activate the wheel lock:
Push the handles (A) on both sides down, to lock the wheels.

Deactivate the wheel lock:
Pull the handles (A) on both sides up, to lock the wheels.

The wheel locks are installed on the frame and can be moved forward and backward, depending on wheel size and brake efficiency. Move the fittings backward and the chair will be locked more. Move the fittings forward and the chair will locked less efficiently.

Loosen the screws (B) with the enclosed 4 mm Allen key to adjust the placement of the wheel lock. Fasten the screws in the desired position.

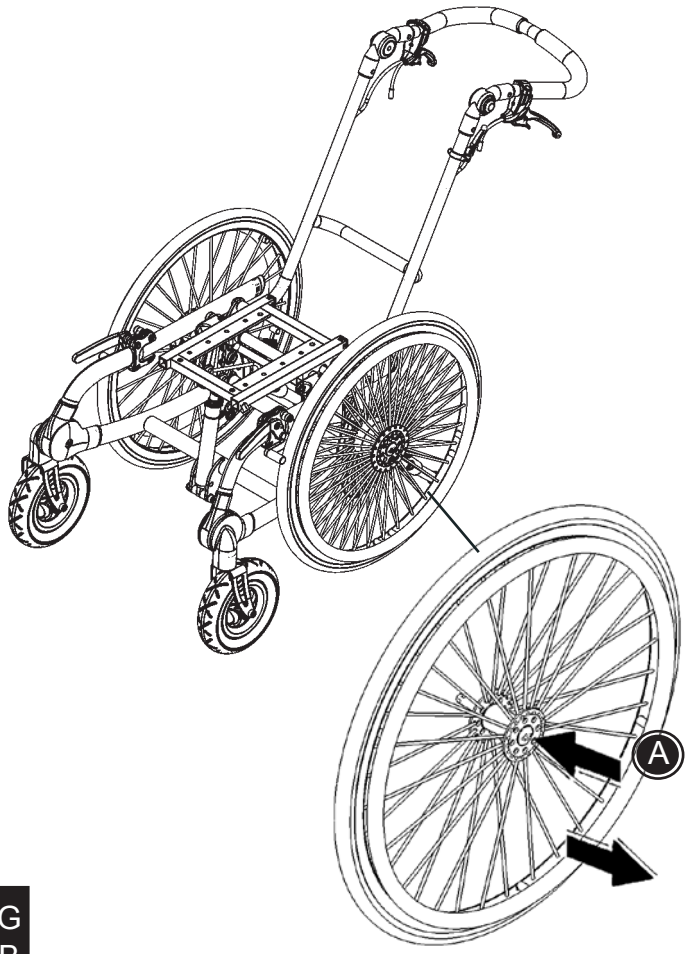


⚠ Always activate the wheel locks in both sides.

⚠ Check at regular basis that the lock clicks into place and the holes are not filled with grease and dirt.

⚠ Keep the recommended air pressure, 55 PSI/3,8 bar/380 kPa in the rear wheels, to make sure the brakes work properly.

⚠ To ensure the safety of the user, we strongly recommend distance of 8-10 mm, between the wheel and the wheel lock block.



GB QUICK RELEASE WHEELS

Quick Release axle pins on the rear wheels is a standard feature of the Multi Frame - This aids in quick and easy removal (A): Push the release mechanism in the middle of the wheel and pull to remove the wheel.

To remove the wheel depress the release mechanism (A) located in the middle of the wheel. Slide the axle pin with the wheel away from the chair.

⚠ When replacing the wheels please make sure that the release pin head clicks back out to lock the wheel to position.

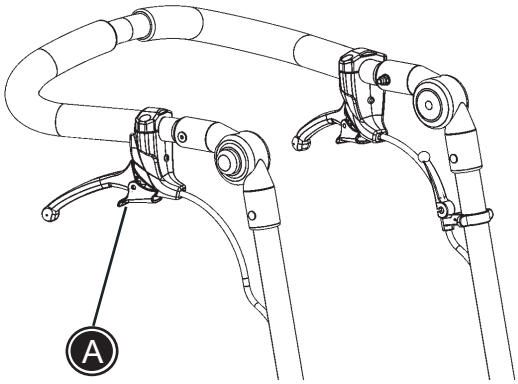
⚠ Pull on the wheel to confirm that the axle pin has locked back into position.

GB HAND BRAKE

The hand brake handles are installed on the push brake and are operated by the helper.

* Squeeze the handle to activate the brake.

* Pull the red handle at the same time releasing the main handle (A) to disengage the brake.



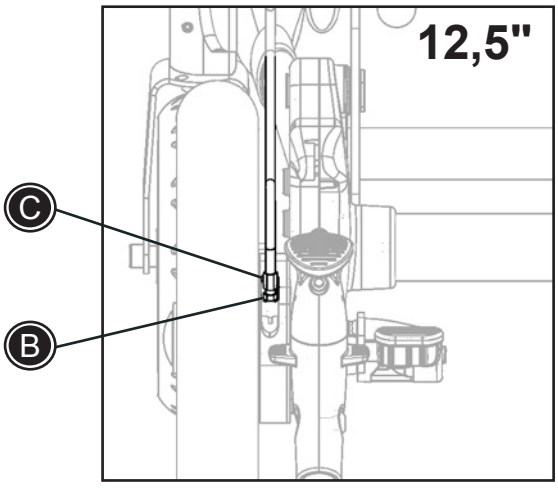
Adjustment of the hand brake:

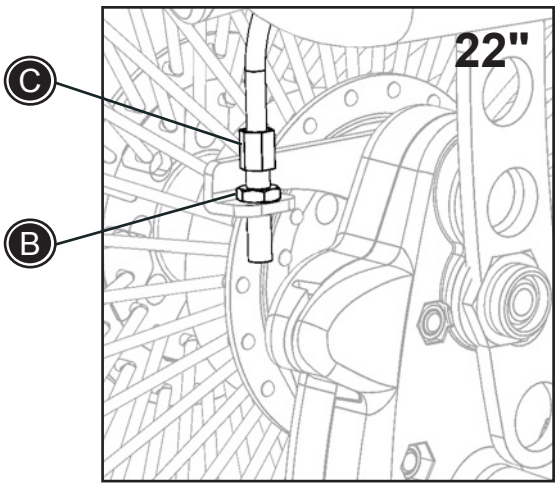
The strength of the brake can be adjusted by doing following:

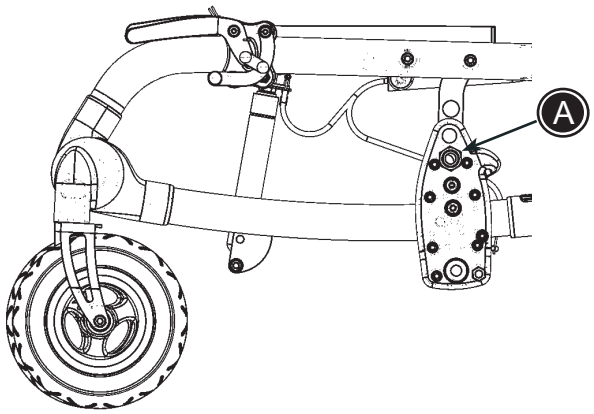
1) Loosen the nut (B) with a 8 mm spanner.

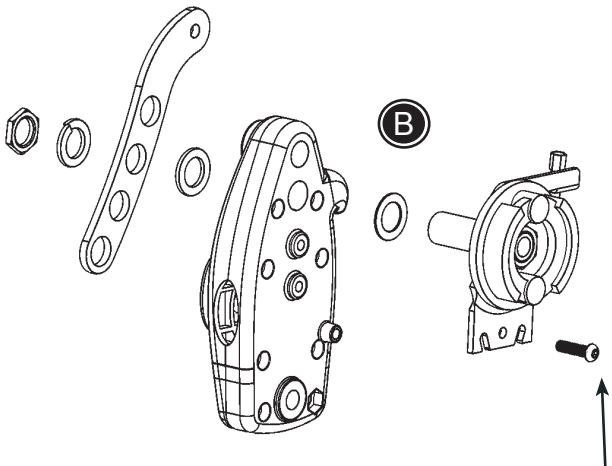
2) Turn the cable tightener (C) up to tighten the brake or turn it down to loosen the brake

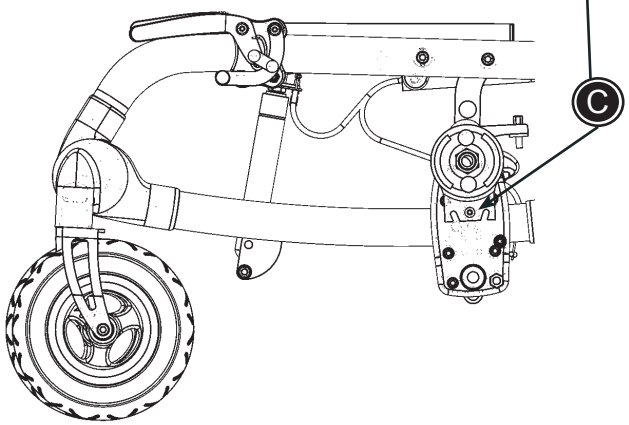
3) Tighten the nut (B) again.

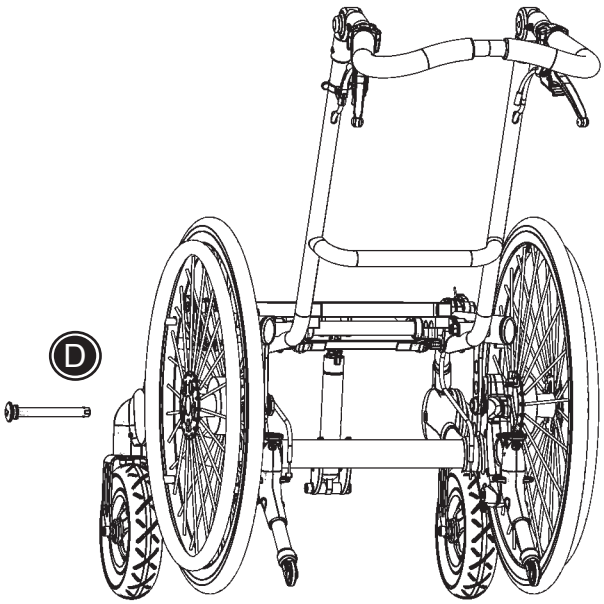












GB MOUNTING HAND BRAKE ON 22" WHEEL

Follow these directions to mount a hand brake on 22" back wheels.

1) Remove the back wheel by using Quick release axle pin

2) Remove the Quick release bushing (A) with 2 24 mm spanners

3) Mount the drum brake with the enclosed nuts and washers in the order as shown (B). Tighten the inner nut

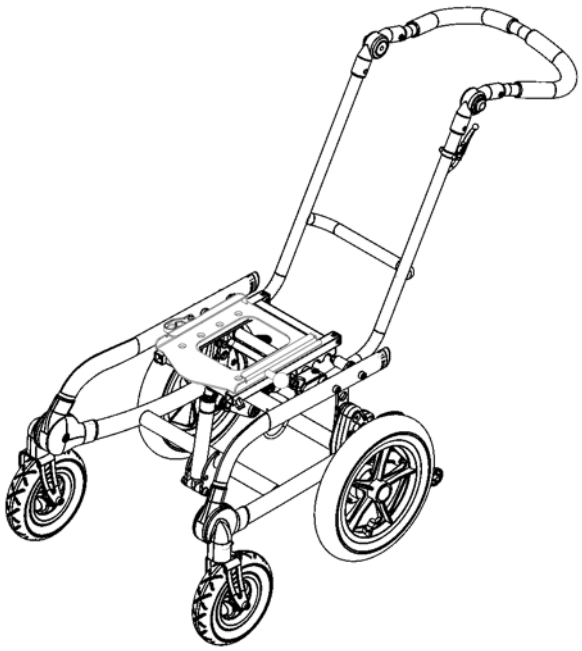
4) Fasten the drum brake with the screw (C) with a 4 mm allen key

5) Mount a drum brake wheel and click in the Quick release axle (D)

The above has to be done on both back wheels.

GB WHEELS

Info about tyres				
	Tyre width	**Tyre type**	**recommended air pressure**	**Extra**
7" front wheel, black rubber	51 mm (2")	Air	2,5 bar	
12,5" back wheel, black rubber	60 mm (2¼")	Air	2,5 bar	
7" front wheel, black pur	30 mm (1¼")	Solid	-	Anti puncture
12,5" back wheel, black pur	60 mm (2¼")	Solid	-	Anti puncture
7" front wheel, grey rubber	45 mm (1¾")	Air	2,5 bar	
22" back wheel, grey rubber	30 mm (1¼")	Air	3,8 bar	
7" front wheel, grey pur	45 mm (1¾")	Solid	-	Anti puncture
22" back wheel, grey pur	30 mm (1¼")	Solid	-	Anti puncture



GB INTERFACE FOR X: PANDA AND PANDA FUTURA SEATS

You can mount a special interface on the Multi Frame to mount an x:panda or a Panda Futura seat.

1. Place the interface in such way that you obtain the correct centre of gravity for the seat.

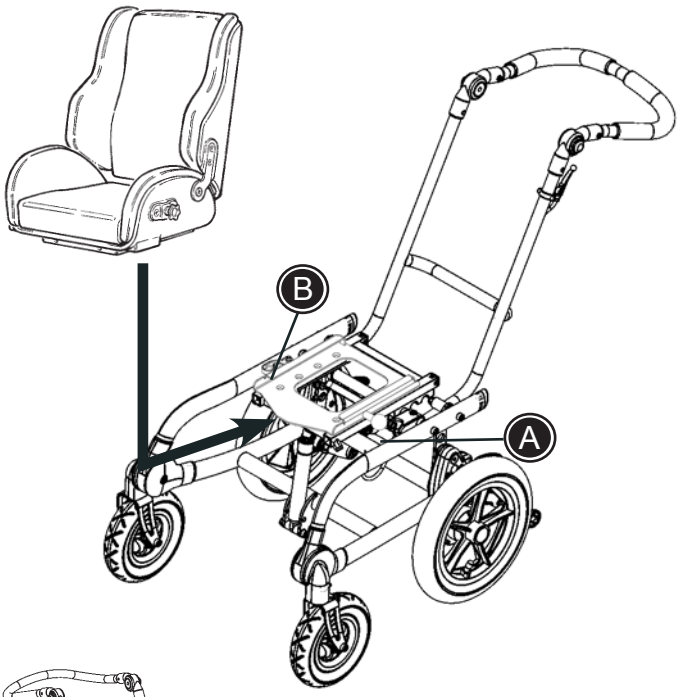
2. Mount the enclosed bolts from the top by fastening with a nut beneath the basic frame. Fasten all screws securely using a 4 mm Allen key and a 10 mm spanner. Obtain a better work space by releasing the gas spring.

⚠ It is very important to adjust the centre of gravity to maintain stability and prevent the frame from tipping.

⚠ The interface must be securely mounted before mounting a seat

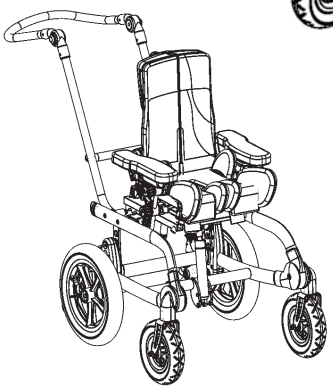
GB MOUNTING A X:PANDA OR PANDA FUTURA SEAT IN AN INTERFACE

Mount an x:panda or Panda Futura seat on Multi Frame:
The seat is slid into in the adapter and should be pushed back until it "clicks". Then pull out the green knob and push the seat back until the green knob (A) clicks into the second safety hole. Lock with the red handle (B) on the opposite side by levering the red handle towards the rear of the frame.



⚠ Do not use the first hole the seat is "clicking" into. This is a safety hole, that catches the seat if the handle (B) is released by mistake.

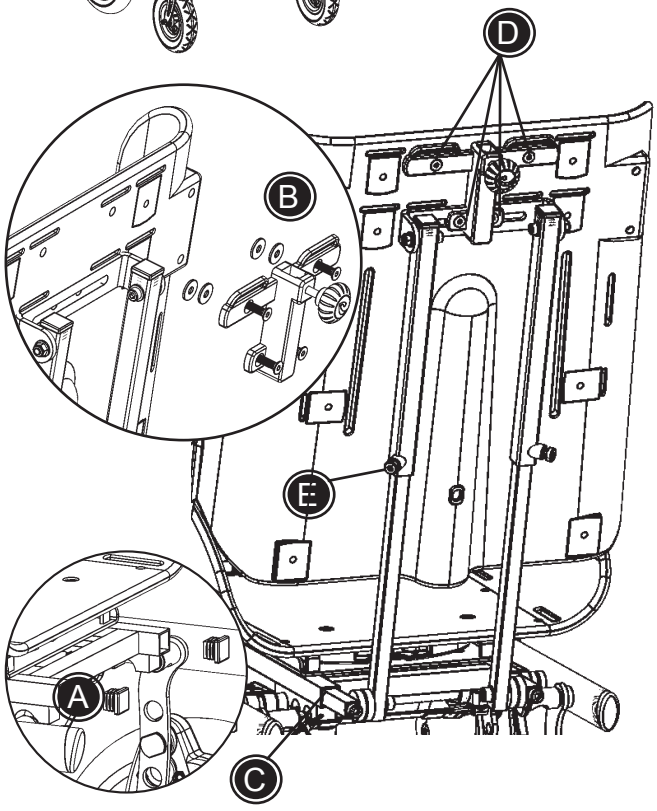
⚠ Always check that the seat is securely mounted before placing a child in the chair

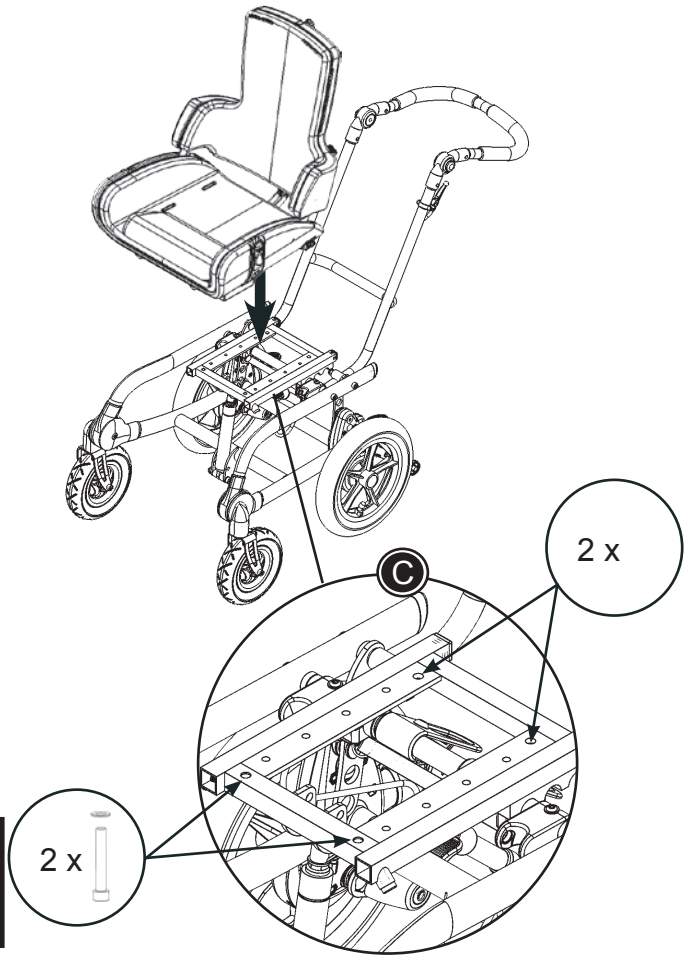


⚠ When mounting the seat, please be carefull not to get fingers caught!

GB BACK FIXTURE WHEN USING PANDA FUTURA SZ.3+4 ON MULTI FRAME IN VEHICLE

1. Dismount the plastic plugs located on the Multi Frame (A)
2. Dismount the headrest fitting (B)
3. Fasten the back fixture in the Multi Frame slide (C). Mount the upper part of the back fixture on the back of the seat, together with fitting (B) the enclosed 4 screws and 4 washers (D). Use the bolts (E) to adjust the height and tighten afterwards!
4. Make sure to tighten all of the screws after the correct position is achieved.





GB PERMANENT MOUNTING OF X:PANDA OR PANDA FUTURA SEAT

x:panda sz 3 and Panda Futura sz 5 can be permanent mounted on the Multi Frame. Use the enclosed 4 bolts, 4 washers and a 6 mm allen key (these comes with the Multi Frame).

Place the seat on the frame. Put the washers on the bolts and mount the bolts from below through the front and rear holes. Please note that the short bolts are for the holes at the front and the longer bolts are for the holes at the the rear.

⚠ Be careful not to over tighten the bolts.

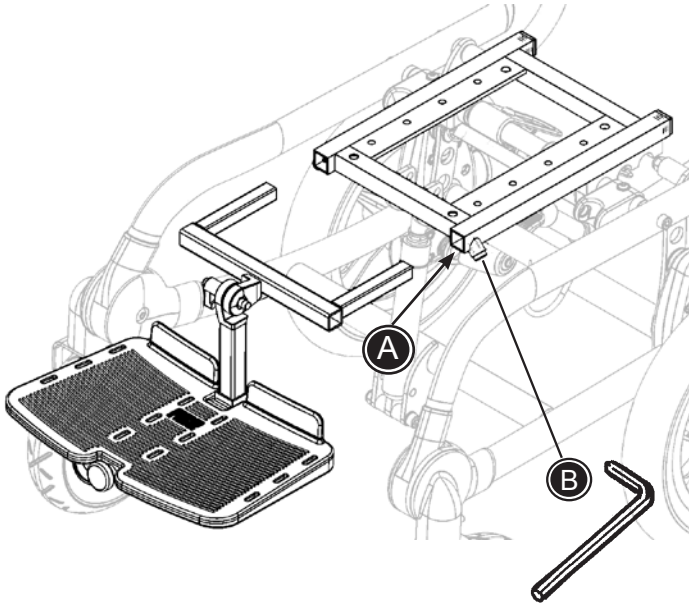
⚠ Always check that the seat is securely mounted before placing a child in the chair

GB SEAT AND FRAME SIZES

Seat \ Frame	Multi Frame sz 1	Multi Frame sz 2	Multi Frame sz 3
Panda Futura sz 1	●	○	○
Panda Futura sz 2	●	○	○
Panda Futura sz 2½		●	○
Panda Futura sz 3		●	○
Panda Futura sz 4			●
Panda Futura sz 5*			●
x:panda sz 1 - S	●	○	○
x:panda sz 1 - M	●	○	○
x:panda sz 1 - L	●	○	○
x:panda sz 2 - S	●	●	○
x:panda sz 2 - M	●	●	○
x:panda sz 2 - L	●	●	○
x:panda sz 3 - S*		●	●
x:panda sz 3 - M*		●	●
x:panda sz 3 - L*		●	●

● Recommendation
○ Possibility

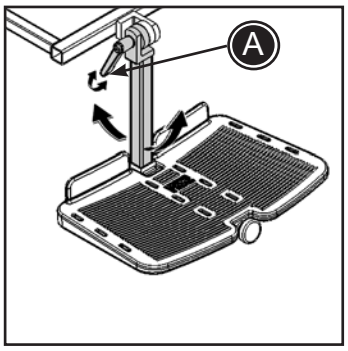
* These seats can be mounted permanently.

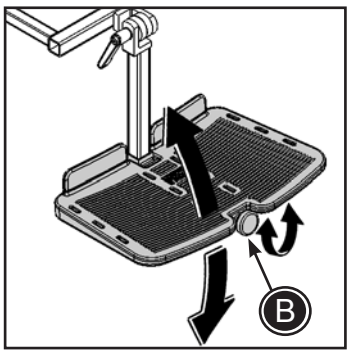


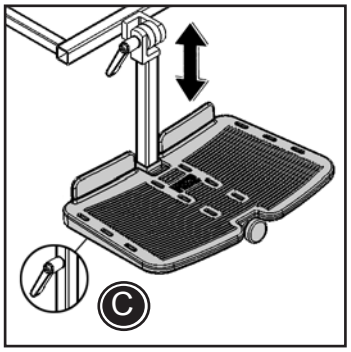
GB FOOT SUPPORT

Mounting:
Loosen the screws (B) with a 5 mm allen key and the foot support is mounted by placing the bars in the interface (A). Then refasten the screws (B).

⚠ When mounting the foor support, please be careful not to get fingers caught!







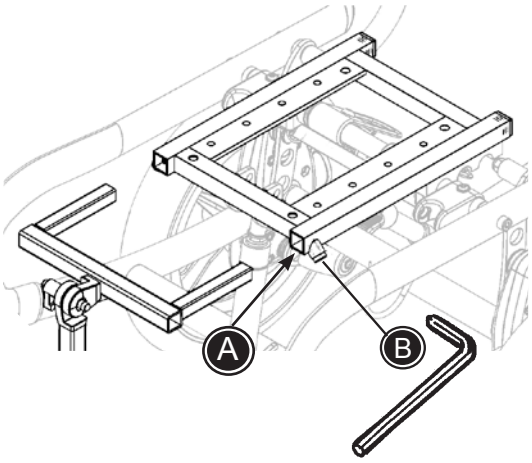
Adjustment:
To angle the foot rest bar, loosen the grip (A). Adjust the angle and fasten.

Angle the foot plate by turning the adjustment knob in the front of the plate (B).

Adjust the height of the foot plate by loosening the grip (C) underneath the foot plate and positioning the foot plate to the required height and then refasten the handle (C).

⚠ Do not use the footrest as a step.

GB INDIVIDUAL FOOT SUPPORTS

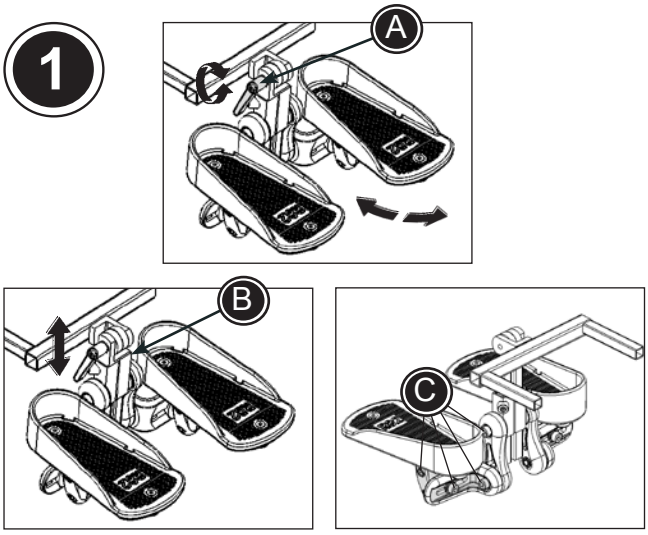


Mounting:
Loosen the screws (B) with a 5 mm allen key and the foot support is mounted by placing the bars in the interface (A). Then refasten the screws (B).

Adjustment of individual foot supports 1:
Angle adjustment - foot support bar:
Loosen the handle (A).

Height adjustment - foot support bar:
Loosen the screw (B) using a 6 mm Allen key.

Multi adjustment:
Loosen the screws (C) to angle, width, depth and height adjust the foot support.

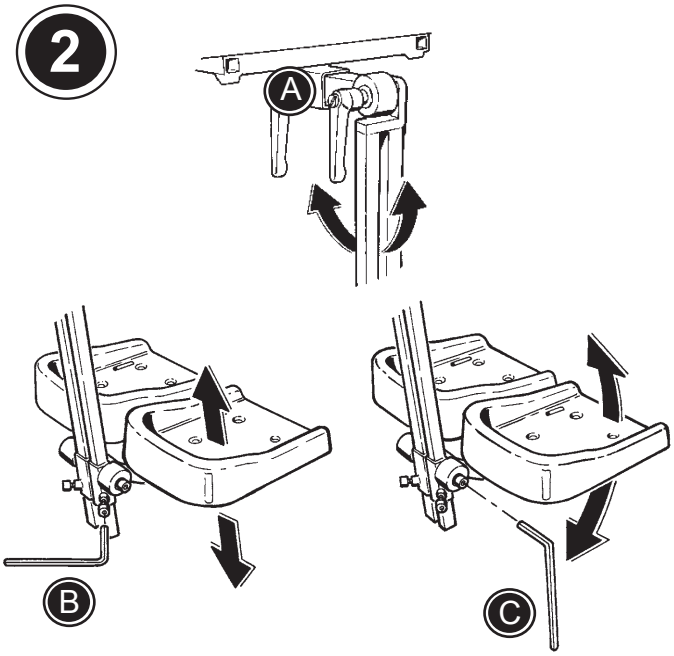


Adjustment of individual foot supports 2:

A) Use the handle to angle the footrest bar.

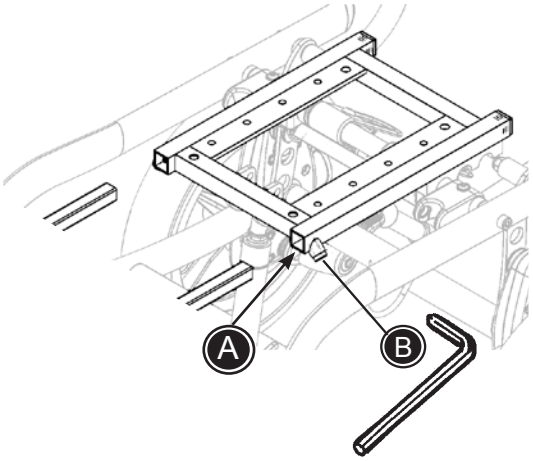
B) Use a 6 mm Allen key to height adjust the footrest.

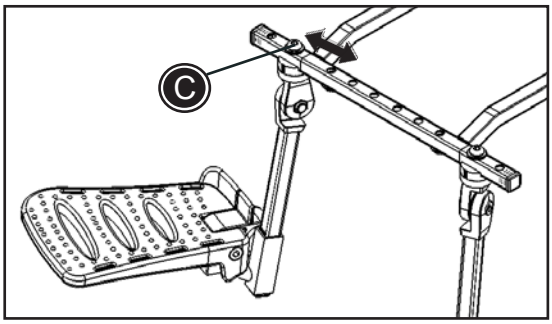
C) Use a 6 mm Allen key to angle the footrest.

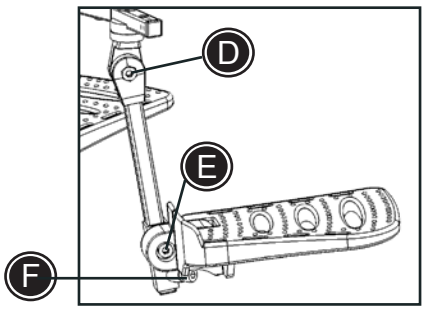


⚠ Do not use the footrest as a step

⚠ When angling the footrests, please be careful not to get fingers caught!







GB INDIVIDUAL FOOTSUPPORTS FOR X:PANDA

Mounting:
Loosen the screws (B) with a 5 mm allen key and the foot support is mounted by placing the bars in the interface (A). Then refasten the screws (B).

Width adjustment:
Remove the screws (C) using the 5 mm Allen key. Place the footsupport as required and re-mount the screws.

Angle adjustment:
Loosen the screws (D or E) using the 5 mm Allen key, replace screws and tighten.

Height adjustment:
Loosen the screws (F) using the 5 mm Allen key, set the height and tighten.

⚠ Do not use the footsupports as a step.

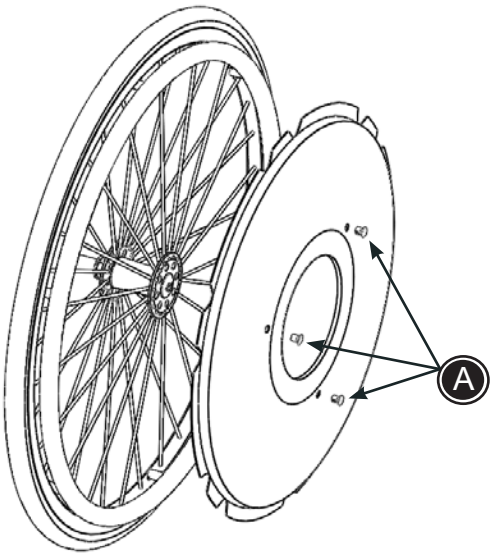
⚠ When angling the footrests, please be careful not to get fingers caught!

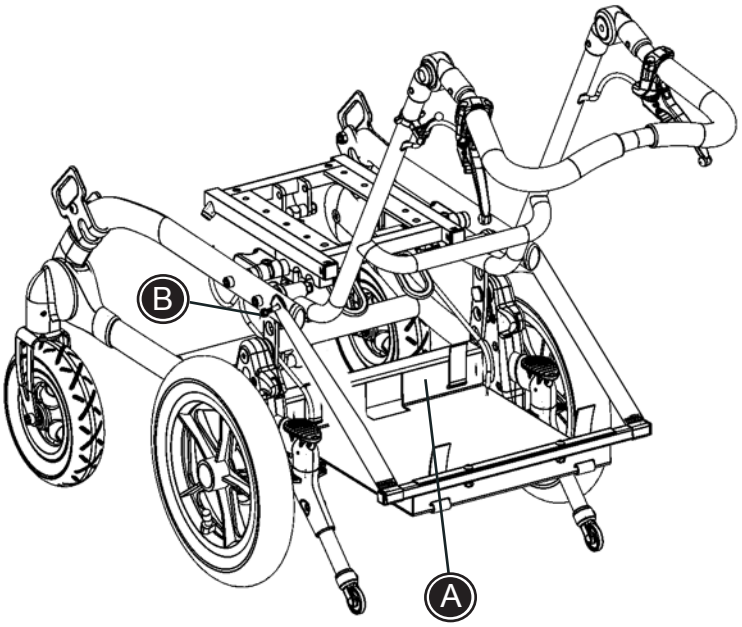
GB SPOKE PROTECTORS

Follow the description below to mount spoke protectors on the Multi Frame:

* Place the protector on the spokes

* Mount the enclosed clips (A) through the holes in the spoke protectors and click into place on the spokes.





GB VENT TRAY FOR VENTILATOR

The vent tray can only be mounted on Multi Frame sizes 2 and 3.

* Place the vent tray on the bottom bar on the frame (A).

* Drill a 5 mm hole on each side of the frame and mount the straps with the enclosed bolts (B).

* Adjust the quick release straps to place the vent tray in horizontal position. Please note that when used in transportation the vent tray has been designed for quick and easy removal.

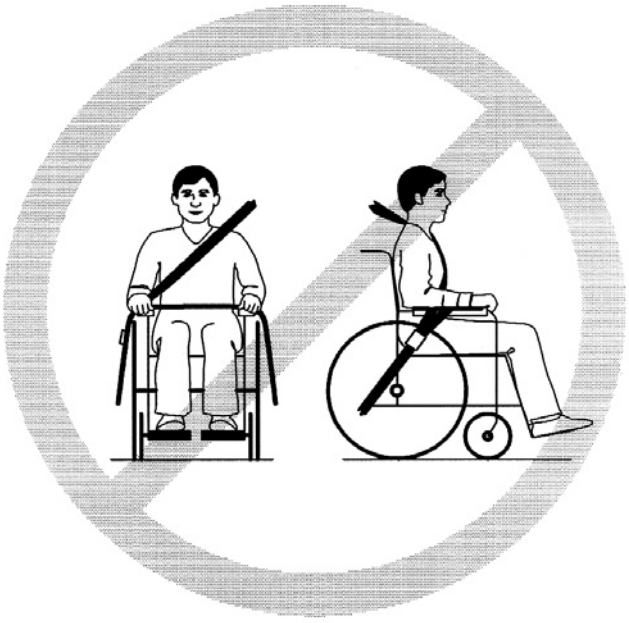
Once set the Ventilator can be secured using the restraining straps provided.

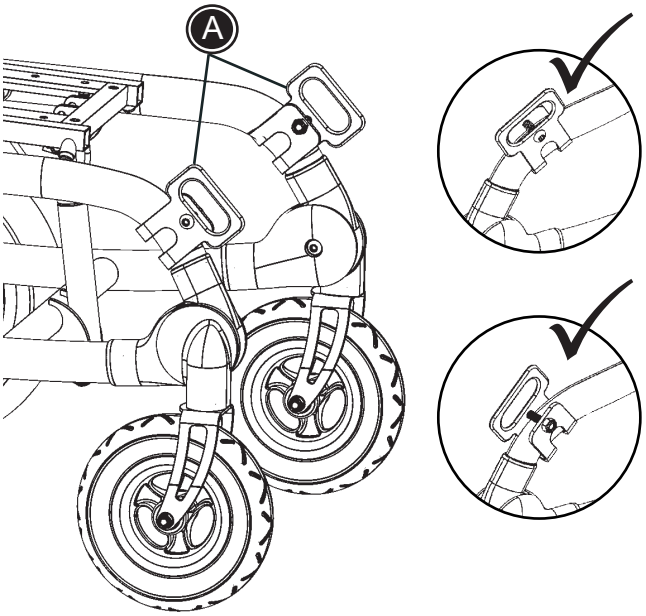
You could ask your local dealer for help on mounting the vent tray.

GB TRANSPORTATION IN MOTOR VEHICLES

The Multi Frame is approved for transporting children in motor vehicles, when the wheelchair is placed in forward-facing position.

- The approval is not valid on special made chairs.
- The child should transfer to the vehicle seat and use the vehicle-installed restraint system whenever it is feasible.
- The wheelchair has been dynamically tested according to ANSI/RESNA WC/Vol. 1-1998, section 6.4.1, litra c.
- Use an approved 3-point belt in the wheelchair. Restraints should not be held away from the body by wheelchair components such as armrests or wheels.
- The front wheels needs to be turned away under the frame before fixation.
- All accessories has to be removed from the wheelchair and secured separately in the vehicle. Accessories which can not be removed, has to be secured to the wheelchair but positioned away from the child with energy-absorbing padding placed between the accessories and the child.
- The wheelchair should be inspected by the dealer before reuse following involvement in any type of vehicle impact.



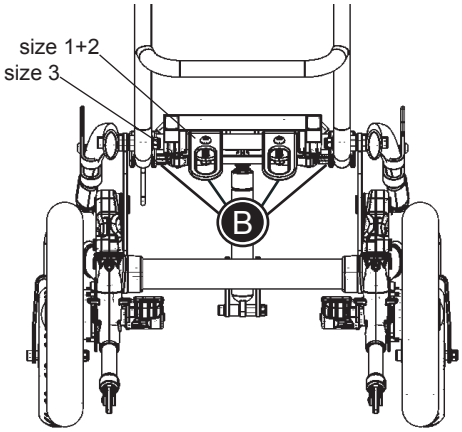


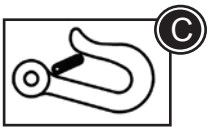
GB MAKE THE MULTI FRAME READY FOR TRANSPORT

Transport fittings:

* Mount two transport fittings (A) on both sides of the Frame

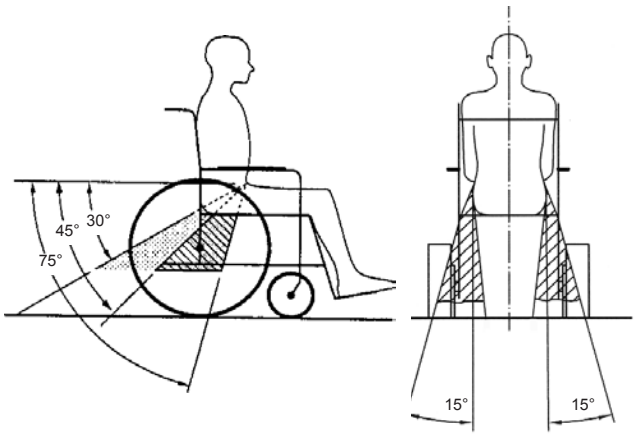
* Mount two fittings (B) on the back of the frame. The transport fittings (A+B) are equipped with a secure symbol (C).





The Multi Frame is approved for transporting users in motor vehicles. Please look at MEASURES in the back of this manual for the max load. indication.

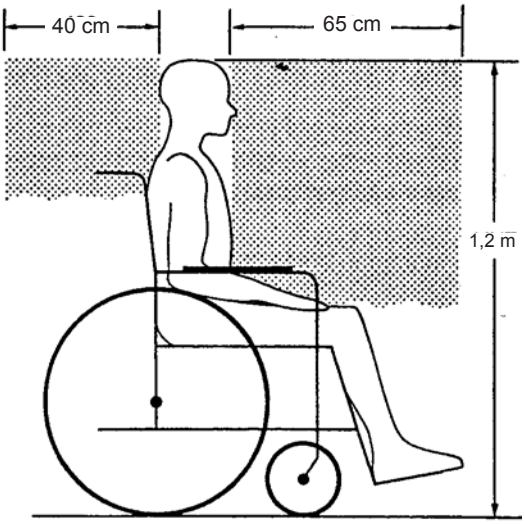
GB SECURE THE MULTI FRAME IN THE VEHICLE



* Mount the 4-point strap-type tiedown system in the vehicle. (Follow the manufacture instructions)

* Secure the wheelchair to the vehicle, using the 4-point strap-type tiedown system. Use either a hook or a strap in the transport fitting.

⚠ Use a 4-point strap-type tiedown system approved according to ISO 10542-2 and SAE J2249.



Position inside vehicle:

* Remove all accessories from the wheelchair before transportation.

* Place the child in forward-facing position.

⚠ Be aware of the recommended safety zone (C) when moving children in vehicles.

GB PRODUCT IDENTIFICATION

A

Dato: 31-01-02 Belast: kg
SN: 0840-01-111878-001
Varenr: 880003
5707292 134158

A) Serial number

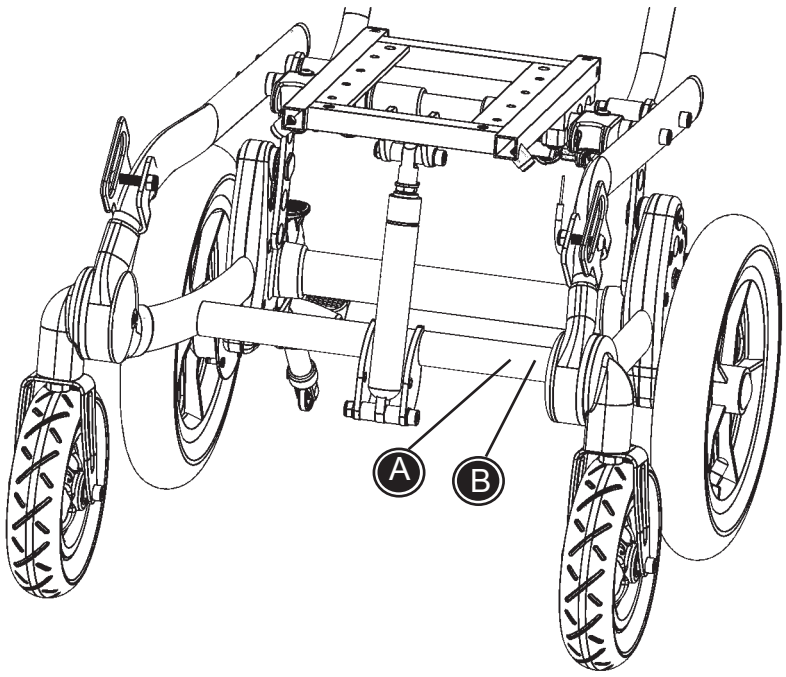
The label is placed to the left on the front cross bar beneath the seat.

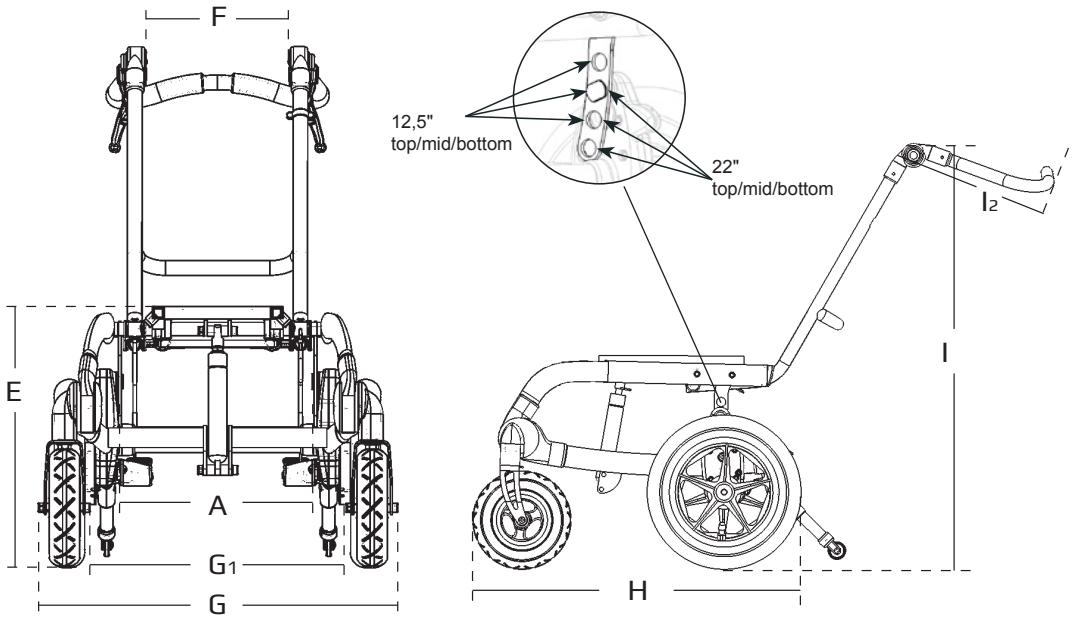
B

R82 CE
Parallelvej 3
DK-8751 Gedved

B) Manufacturer

The label is placed to the far left on the front cross bar beneath the seat.





GB MEASUREMENTS

	Size 1 cm (inch)	Size 2 cm (inch)	Size 3 cm (inch)
Width, inside (A)	34 cm (13¼")	39 cm (15¼")	44 cm (17¼")
Height floor-basic plate (E) (top/mid/bottom position)	39½ / 42½ / 45½ cm (15½ / 16½ / 17¾")	39½ / 42½ / 45½ cm (15½ / 16½ / 17¾")	39½ / 42½ / 45½ cm (15½ / 16½ / 17¾")
Back width, inside (F)	24½ cm (9½")	29½ cm (11½")	34½ cm (13½")
Total width 12½" (G)	59 cm (23")	64 cm (25")	69 cm (27")
Total width 22" (G)	59 cm (23")	64 cm (25")	69 cm (27")
Distance between 22" wheels w/drum brakes G_1	43 cm (16¾)	48 cm (18¾")	53 cm (20½")
Distance between 22" wheels wo/drum brakes G_1	44 cm (17¼")	49 cm (19")	54 cm (21")
Length of frame 12½" (H)	64 cm (25")	64 cm (25")	69 cm (27")
Length of frame 22" (H)	75 cm (29¼")	75 cm (29¼")	80 cm (31¼")
Height push brace 15° (I)	91½ cm (35¾")	91½ cm (35¾")	91½ cm (35¾")
Height push brace 30° (I)	85 cm (33½")	85 cm (33½")	85 cm (33½")
Hand brace length (I_2)	22½ cm (8¾")	22½ cm (8¾")	22½ cm (8¾")
Seat angling	0-30° / 35° / 40°	0-30° / 35° / 40°	0-30° / 35° / 40°
Height folded, without back wheels (mid position)	40 cm (15½")	40 cm (15½")	40 cm (15½")
Height folded, with 12½" back wheel (mid position)	47 cm (18¼")	47 cm (18¼")	47 cm (18¼")
Height folded, with 22" back wheel (mid position)	56 cm (22")	56 cm (22")	56 cm (22")
Folded length, without back wheels	70 cm (27¼")	70 cm (27¼")	75 cm (29¼")
Folded length, with 12½"	73 cm (28½")	73 cm (28½")	78 cm (30½")
Folded length, with 22"	85 cm (33¼")	85 cm (33¼")	90 cm (35")
Max load (=user+seat+accessories)	100 kg (220 lb)	100 kg (220 lb)	100 kg (220 lb)
Max load for transportation (=user+seat+accessories)	100 kg (220 lb)	100 kg (220 lb)	100 kg (220 lb)
Weight (12½" air wheels+solid front wheels)	13 kg (28,6 lb)	13 kg (28,6 lb)	13 kg (28,6 lb)
Weight (22" air wheels+air front wheels)	14 kg (30,8 lb)	14 kg (30,8 lb)	14 kg (30,8 lb)

Further information regarding max. load/user weight and transportation:
www.R82.com/files/archive/Publications/Pdf/Chart_transport.pdf

GB TECHNICAL DATA

Frame: Powder lacquered aluminium and steel and anodtised aluminium
Plastparts: ABS

GB MANUFACTURER

R82 A/S
Parallelvej 3
8751 Gedved
Denmark

GB DISTRIBUTOR

Please find your distributor on www.R82.com

GB CARE AND MAINTENANCE

WHEELS
Wheel axles: The axles should be kept free of dirt. Clean as frequently as necessary.
Ball bearings: The ball bearings require no maintenance.
Handrims: If a handrim should be damaged in such a way that it could lead to hand injury, it should be replaced.

22" tires: Check the air pressure (recommended: 55 PSI/3,8 bar/380 kPa) and tread at a regular basis. For instance by your local bicycle engineer.
12½" tires: Check the air pressure (recommended: 35 PSI/2,5 bar/240 kPa) and tread at a regular basis. For instance by your local bicycle engineer.

BRAKES
The function of the brakes is dependent upon tire pressure. Caked on dirt can have a negative effect on the brake mechanism. The brakes should be checked at least once a month.
For safety routinely check to make sure the distance between the wheel and the wheel lock block is: 8-10 mm. The brakes should not be activated when the frame is stored as this could result in a flat spot in the solid inner of the tyre. If drum brakes are mounted, the cables have to be adjusted, to ensure the brakes are working properly. Make sure the wheels can not be turned around when the brakes are activated. A qualified technician must check and tighten the brakes at least every 6 months.

FRAME
Tighten all screws on the chair on a regular basis, especially when the chair has been adjusted. Also, it is important to keep the wheelchair clean, both for the users comfort and the longevity of the chair. It is very important to clean the holes for the back angle. Wash the chair with car shampoo or dishwashing liquid. If the chair is especially dirty, a grease remover may be used.

Clean the frame especially when it has been in contact with rainwater / salt water. Do not use any cleaning materials containing chlorine or methylated spirit or which is abrasive.

INSPECTION
It is important to tighten all screws on the chair on a regular basis. The screws in the back and seat must be checked when adjustments to the width have been made. All screws which secure the accessories must be checked, at least once a month. To avoid sharp edges, it is important to check all rail-ends have end caps. Also, it is important to be aware of any cracks or faults in the frame, PVC parts, etc.

REPAIR
If there is a problem with your wheelchair you should contact your dealer at once. Defective chairs should not be used. If your chair needs reconditioning or repair, only original R82 parts may be used. Accessories or available spare parts which are broken can be forwarded to R82 for repair. If there is a problem with any basic parts, the whole chair must be returned to R82 for repair. R82 will not be held responsible for damage or injury caused by use of non-original parts or repairs made by a non-authorized R82 person.

GAS SPRING
Do not expose the gas spring to pressure, high temperatures or perforation. The gas spring is defect if leeking oil and then needs to be replaced.

GB TROUBLESHOOTING

Symptom*	Solution
Wheelchair will not hold a straight steering line	- Inflate the tires - Check the front fork attachment angle - Check that the adjustment screw has not been tightened too much. - Make sure that the front fork attachments are installed at the same height - Make sure the user is distributing weight evenly - Is more strength being used on one side than the other when propellning the chair? Check the tires.
Wheelchair feel heavy to propel	- Inflate the tires - Make sure that the castor axles are free from dirt etc. - Too much weight over the castors. Adjust the centre of gravity. - The brakes have been tightened too much. - Something is stuck to the wheels. Remove any obstructions.
Wheelchair feels difficult to turn	- Inflate the tires - Adjust the angle of the front fork attachments - Make sure that the castor axles are free from dirt etc. - Too much weight over the castors. Adjust the centre of gravity.
Brakes not effective	- Inflate the tires - Adjust the distance between wheel lock and tire - Replace the wheel locks if they are worn out - The cables for drum brake may need tightening - The cables for drum brake may be bent - The hub for drum brake may need to be cleaned
Rear wheels loose	- Make sure that the axle-shaft washer is in place - Adjust the length of the axle shaft
Rear wheel hard to remove/ replace	- Clean and lubricate quick release - Adjust the length of the axle shaft
Castor wobbles	- Front forks are not tightened properly - Check that the front fork attachments are mounted at the same height - Adjust the angle of the front fork attachment - Too much weight over the castors. Adjust the centre of gravity - Please see the section "Wheels" for adjustment of fron wheels
Wheelchair feels awkward	- Inflate the tires - Check that all screws, nuts and bolts are properly fastened/tightened

* The user may experience several of these problems in a wheelchair that is incorrectly adjusted or is being used incorrectly.